



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

RENNER *et al.*

Appl. No. 10/050,898

Filed: January 18, 2002

For: **Molecular Antigen Array**

Confirmation No. 7794

Art Unit: 1645

Examiner: *To be assigned*

Atty. Docket: 1700.0190005/BJD/SJE

**Sixth Supplemental Information Disclosure Statement**

Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98. The numbering on this Sixth Supplemental Information Disclosure Statement is a continuation of the numbering in Applicants' Fifth Information Disclosure Statement filed on September 15, 2003. A copy of each document is also provided.

The Examiner is referred to the following list of related, co-pending patent applications:

U.S. Patent Application No. 10/622,064, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AT128**;

U.S. Patent Application No. 10/617,876, filed July 14, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AR129**;

U.S. Patent Application No. 10/622,087, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document **AS129**;

U.S. Patent Application No. 10/622,124, filed July 18, 2003, inventors Bachmann *et al.*, submitted herewith as Document AT129.

The identification of these U.S. Patent Applications is not to be construed as a waiver of secrecy as to these applications now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited applications and the art cited therein during examination.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered. This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist.

This Sixth Supplemental Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits. No statement or fee is required.

Consideration of the cited documents and making the same of record in the prosecution of the above-identified application is respectfully requested. The U.S. Patent and



30  
**Sterne Kessler  
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Federal Agencies

October 29, 2003

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Commissioner for Patents  
PO Box 1450  
Alexandria, VA 22313-1450

**Art Unit 1645**

Re: U.S. Utility Patent Appl. No. 10/050,898; Filed: January 18, 2002  
For: **Molecular Antigen Array**  
Inventors: Renner *et al.*  
Our Ref: 1700.0190005

Sir:

Transmitted herewith for appropriate action are the following documents:

1. Sixth Supplemental Information Disclosure Statement;
2. PTO-1449 (36 pages) citing 106 references (AT95-AT130);
3. Copies of the cited references; and
4. Return postcard.

It is respectfully requested that the attached postcard be stamped with the date of filing of these documents, and that it be returned to our courier. In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

BJD/SJE/as  
Enclosures

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Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Brian J. Del Buono  
Attorney for Applicants  
Registration No. 42,473

Date: Oct. 29, 2003

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Washington, D.C. 20005-3934  
(202) 371-2600



FORM PTO-1449

**SIXTH SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT**ATTY. DOCKET NO.  
1700.0190005/BJD/SJEAPPLICATION NO.  
10/050,898APPLICANT  
RENNER et al.FILING DATE  
January 18, 2002GROUP  
1645**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
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**FOREIGN PATENT DOCUMENTS**

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

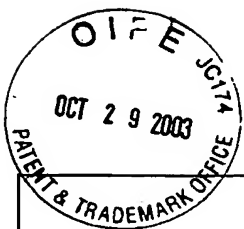
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR		
	AS		
	AT	<u>95</u>	NCBI Entrez, GenBank Report, Accession No. P03153, from Seeger, C., et al. (January 1990)

EXAMINER

DATE CONSIDERED

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	AL						Yes No
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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>96</u>	NCBI Entrez, GenBank Report, Accession No. X59397, from Jordan, C.T., et al. (November 1991)
AS	<u>96</u>	NCBI Entrez, GenBank Report, Accession No. 711678A, from Shipolini, R.A., et al. (July 1992)
AT	<u>96</u>	NCBI Entrez, GenBank Report, Accession No. M27603, from Orndorff, P.E., and Falkow, S. (April 1993)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>97</u>	NCBI Entrez, GenBank Report, Accession No. M20706, from Nassal M. (April 1993)
	AS	<u>97</u>	NCBI Entrez, GenBank Report, Accession No. AAA37490, from Rouvier E. (July 1993)
	AT	<u>97</u>	NCBI Entrez, GenBank Report, Accession No. M90520, from Kew, M.C., et al. (August 1993)

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>98</u>	NCBI Entrez, GenBank Report, Accession No. X00981, from Klemm, P. (September 1993)
AS	<u>98</u>	NCBI Entrez, GenBank Report, Accession No. VCBPQB, from Maita, T., and Konigsberg, W. (December 1993)
AT	<u>98</u>	NCBI Entrez, GenBank Report, Accession No. AAA16663, from Kozlovska, T.M., et al. (March 1994)

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X02514, from Yanisch-Perron, C., <i>et al.</i> (May 1994)
	AS	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85256, from Lai, M.E., <i>et al.</i> (April 1995)
	AT	<u>99</u>	NCBI Entrez, GenBank Report, Accession No. X85259, from Lai, M.E., <i>et al.</i> , (April 1995)

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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

AR	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85260, from Lai, M.E., et al. (April 1995)
AS	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85272, from Lai, M.E., et al. (April 1995)
AT	<u>100</u>	NCBI Entrez, GenBank Report, Accession No. X85275, from Lai, M.E., et al. (April 1995)

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**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85284, from Lai, M.E., et al. (April 1995)
	AS	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85285, from Lai, M.E., et al. (April 1995)
	AT	<u>101</u>	NCBI Entrez, GenBank Report, Accession No. X85286, from Lai, M.E., et al. (April 1995)

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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85287, from Lai, M.E., et al. (April 1995)
	AS	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85291, from Lai, M.E., et al. (April 1995)
	AT	<u>102</u>	NCBI Entrez, GenBank Report, Accession No. X85293, from Lai, M.E., et al. (April 1995)

EXAMINER	DATE CONSIDERED
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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85295, from Lai, M.E., <i>et al.</i> (April 1995)
	AS	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85296, from Lai, M.E., <i>et al.</i> (April 1995)
	AT	<u>103</u>	NCBI Entrez, GenBank Report, Accession No. X85297, from Lai, M.E., <i>et al.</i> (April 1995)

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	AL						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85298, from Lai, M.E., et al. (April 1995)
	AS	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85299, from Lai, M.E., et al. (April 1995)
	AT	<u>104</u>	NCBI Entrez, GenBank Report, Accession No. X85301, from Lai, M.E., et al. (April 1995)

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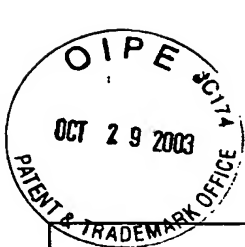
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85302, from Lai, M.E., et al. (April 1995)
	AS	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85303, from Lai, M.E., et al. (April 1995)
	AT	<u>105</u>	NCBI Entrez, GenBank Report, Accession No. X85305, from Lai, M.E., et al. (April 1995)

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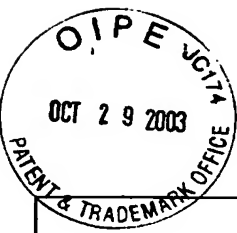
	AR	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85307, from Lai, M.E., et al. (April 1995)
	AS	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85311, from Lai, M.E., et al. (April 1995)
	AT	<u>106</u>	NCBI Entrez, GenBank Report, Accession No. X85314, from Lai, M.E., et al. (April 1995)

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U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
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FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>107</u>	NCBI Entrez, GenBank Report, Accession No. X85315, from Lai, M.E., et al. (April 1995)
	AS	<u>107</u>	NCBI Entrez, GenBank Report, Accession No. X85316, from Lai, M.E., et al. (April 1995)
	AT	<u>107</u>	NCBI Entrez, GenBank Report, Accession No. X85317, from Lai, M.E., et al. (April 1995)

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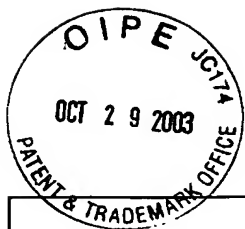
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. X85319, from Lai, M.E., et al. (April 1995)
	AS	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. X80925, from Karayiannis, P. (December 1995)
	AT	<u>108</u>	NCBI Entrez, GenBank Report, Accession No. AAC50341, from Yao, Z., et al. (January 1996)

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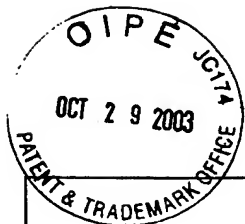
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	AM						Yes No
	AN						Yes No
	AO						Yes No
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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. X72702, from Preisler-Adams, S., et al. (February 1996)
	AS	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. VCBPR7, from Weber, K., et al. (April 1996)
	AT	<u>109</u>	NCBI Entrez, GenBank Report, Accession No. 1604193A, from Gomez, F., et al. (October 1996)

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	AO						Yes No
	AP						Yes No

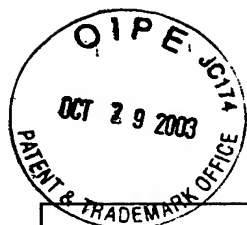
**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. B56338, from Hoffman, D.R. (May 1997)
	AS	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. U95551, from Rao, B.S., <i>et al.</i> (June 1997)
	AT	<u>110</u>	NCBI Entrez, GenBank Report, Accession No. S14764, from Vandermeers, A., <i>et al.</i> (October 1997)

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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. P03611, from Weber, K., et al. (November 1997)
	AS	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AAC14699, from Beekwilder, M.J., et al. (April 1998)
	AT	<u>111</u>	NCBI Entrez, GenBank Report, Accession No. AAC14704, from Beekwilder, M.J., et al. (April 1998)

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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. AF043593, from Gunther, S., et al. (May 1998)
	AS	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. 1POC, from Scott, D.L., et al. (September 1998)
	AT	<u>112</u>	NCBI Entrez, GenBank Report, Accession No. CAA30374, from Inokuchi, Y., et al. (February 1999)

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	AL						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>113</u>	NCBI Entrez, GenBank Report, Accession No. X02496, from Bichko, V., et al. (April 1999)
AS	<u>113</u>	NCBI Entrez, GenBank Report, Accession No. MFIV62, from Cox, N.J., et al. (July 1999)
AT	<u>113</u>	NCBI Entrez, GenBank Report, Accession No. VCBPFR, from Wittmann-Liebold, B., et al. (July 1999)

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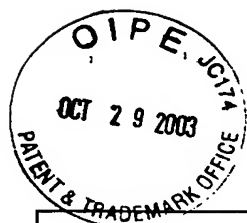
#### OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. A59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)
	AS	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. B59055, from Hoffman, D.R., and Schmidt, J.O. (August 1999)
	AT	<u>114</u>	NCBI Entrez, GenBank Report, Accession No. AF051814, from Boyd, E.F., and Hartl, D.L. (September 1999)

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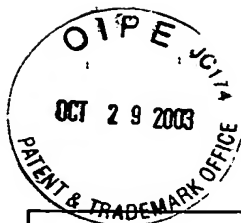
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AF051815, from Boyd, E.F., and Hartl, D.L. (September 1999)
	AS	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AF110999, from Chang, S.F., et al. (October 1999)
	AT	<u>115</u>	NCBI Entrez, GenBank Report, Accession No. AB033559, from Okamoto, H., et al. (October 1999)

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	AR	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. AB010289, from Koseki, T., et al. (December 1999)
	AS	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. AJ132364, from Graupner, S., et al. (April 2000)
	AT	<u>116</u>	NCBI Entrez, GenBank Report, Accession No. AF237482, from Johnson, J.R., et al. (May 2000)

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AR	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. M32138, from Tong, S.P., <i>et al.</i> (July 2000)
AS	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. AF229646, from Skerker, J.M., and Shapiro, L. (August 2000)
AT	<u>117</u>	NCBI Entrez, GenBank Report, Accession No. M95589, from Shi, H., <i>et al.</i> (January 2001)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. VCBPM2, from Min Jou, W., <i>et al.</i> (January 2001)
	AS	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF323080, from Steppan, C.M., <i>et al.</i> (January 2001)
	AT	<u>118</u>	NCBI Entrez, GenBank Report, Accession No. AF323081, from Steppan, C.M., <i>et al.</i> (January 2001)

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	AR	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. U14003, from Plunket, G., III, et al. (January 2001)
	AS	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. AF121239, from Hannoun, C., et al. (February 2001)
	AT	<u>119</u>	NCBI Entrez, GenBank Report, Accession No. AF121240, from Hannoun, C., et al. (February 2001)

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	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. AF121242, from Hannoun, C., et al. (February 2001)
	AS	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. X59795, from Lai, M.E., et al. (March 2001)
	AT	<u>120</u>	NCBI Entrez, GenBank Report, Accession No. X65257, from Lai, M.E., et al. (March 2001)

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	AN						Yes No
	AO						Yes No
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	AR	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. X65258, from Lai, M.E., et al. (March 2001)
	AS	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. AF151735, from Gerner, P., et al. (April 2001)
	AT	<u>121</u>	NCBI Entrez, GenBank Report, Accession No. AJ000636, from Gousset, N., et al. (November 2001)

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR	<u>122</u>	NCBI Entrez, GenBank Report, Accession No. AAB59424, from Kenten, J.H., <i>et al.</i> (February 2002)
	AS	<u>122</u>	NCBI Entrez, GenBank Report, Accession No. AAC06250, from Beekwilder, M.J., <i>et al.</i> (March 2002)
	AT	<u>122</u>	NCBI Entrez, GenBank Report, Accession No. L09137, from Yanisch-Perron, C., <i>et al.</i> (May 2002)

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1700.0190005/BJD/SJEAPPLICATION NO.  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
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	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>123</u>	NCBI Entrez, GenBank Report, Accession No. 009006, from Hromas, R., et al. (June 2002)
	AS	<u>123</u>	NCBI Entrez, GenBank Report, Accession No. P40224, from Nagasawa, T., et al. (June 2002)
	AT	<u>123</u>	NCBI Entrez, GenBank Report, Accession No. P34884, from Bernhagen, J., et al. (June 2002)

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	AN						Yes No
	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. P06821, from Winter, G., et al. (June 2002)
	AS	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. P30904, from Sakai, M., et al. (June 2002)
	AT	<u>124</u>	NCBI Entrez, GenBank Report, Accession No. NP_040754, from Inokuchi, Y., et al. (June 2003)

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	AN						Yes No
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	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>125</u>	NCBI Entrez, GenBank Report, Accession No. NP_061354, from Ishikawa, S., <i>et al.</i> (September 2003)
	AS	<u>125</u>	NCBI Entrez, GenBank Report, Accession No. NP_031804, from Lenda, D.M., <i>et al.</i> (September 2003)
	AT	<u>125</u>	NCBI Entrez, GenBank Report, Accession No. NP_006410, from Luther, S.A., <i>et al.</i> (September 2003)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>126</u>	NCBI Entrez, GenBank Report, Accession No. NP_000748, from Yao, G.Q., <i>et al.</i> (September 2003)
	AS	<u>126</u>	NCBI Entrez, GenBank Report, Accession No. P03069, from Hinnebusch, A.G., <i>et al.</i> (September 2003)
	AT	<u>126</u>	NCBI Entrez, GenBank Report, Accession No. O00585, from Hromas, R., <i>et al.</i> (September 2003)

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## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>127</u>	NCBI Entrez, GenBank Report, Accession No. P14174, from Weiser, W.Y., <i>et al.</i> (September 2003)
	AS	<u>127</u>	NCBI Entrez, GenBank Report, Accession No. P48061, from Spotila, L.D., <i>et al.</i> (September 2003)
	AT	<u>127</u>	NCBI Entrez, GenBank Report, Accession No. P80003, from Vandermeers, A., <i>et al.</i> (September 2003)

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	AP						Yes No

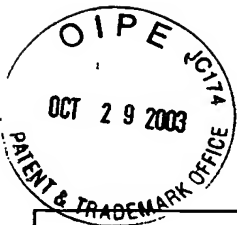
## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>128</u>	Swiss-Prot/TreMBL, TN11_Mouse, Primary Accession No. 035235, entered in Swiss-Prot in October 2001
	AS	<u>128</u>	Swiss-Prot/TreMBL, TN11_Human, Primary Accession No. 014788, entered in Swiss-Prot in October 2001
	AT	<u>128</u>	Copy of co-pending U.S. application 10/622,064, inventors Bachmann <i>et al.</i> , filed July 18, 2003 (NOT PUBLISHED)

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	AO						Yes No
	AP						Yes No

## OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>129</u>	Copy of co-pending U.S. application 10/617,876, inventors Bachmann et al., filed July 14, 2003 (NOT PUBLISHED)
	AS	<u>129</u>	Copy of co-pending U.S. application 10/622,087, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)
	AT	<u>129</u>	Copy of co-pending U.S. application 10/622,124, inventors Bachmann et al., filed July 18, 2003 (NOT PUBLISHED)

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SIXTH SUPPLEMENTAL  
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	AO						Yes No
	AP						Yes No

**OTHER (Including Author, Title, Date, Pertinent Pages, etc.)**

	AR	<u>130</u>	Jegerlehner, A., et al., "A molecular assembly system that renders antigens of choice highly repetitive for induction of protective B cell responses," Vaccine 20:3104-3112, Elsevier Science, Ltd. (August 2002)
	AS	<u>130</u>	<i>The Biology of Animal Viruses</i> , 2nd ed., Fenner, F., et al., eds., Academic Press, New York, NY, pp. 117-119 (1974)
	AT	<u>130</u>	NCBI Entrez, PubMed Abstract, PMID: 2205968, Diallo, A., et al., "Morbillivirus group: genome organization and proteins," Vet. Microbiol. 23:155-163 (1990)

EXAMINER

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